

Task 01

1. React Native is a JavaScript frames for developing native mobile applications for iOS and Android. It's based on React, Facebook's JavaScript library for building user interfaces for mobile platforms. React makes it easier to develop for both Android and iOS simultaneously. So, to build a simple ToDoNotes app with less effort, React Native is a good framework since it provides the already existing libraries.
2. Pros and Cons

React Native

Pros	Cons
Time and cost efficiency	Need for an expertise from a native developer for some platform-specific modules
Native look and feel of your apps	It's not fully cross-platform, single-codebase approach
One team for multiple platforms	

NativeScript

Pros	Cons
Executes really fast compared to other alternatives	Need for an expertise from a native developer for some platform-specific modules
Compiles down to native code and runs as a native app	It's not fully cross-platform, single-codebase approach
Provides a way to split custom content, including CSS styles, into separate files per target platform	

Ionic

Pros	Cons
Quick development and time to market compared to native iOS/Android apps	Native plugins aren't stable and can conflict with each other, but necessary to solve lack of features available in Ionic by default
Can be developed mostly in the browser	Debugging of an application built on Ionic can be challenging and requires more time because of unclear error messages
Plenty of UI component available and easy to use	Builds can randomly crash without any reason

3. When adding a Task, the user can attach images, videos or any other attachments regarding the tasks.
4. Considerations done when deciding a mobile application framework
 - The requirement
 - Understanding the constraints
 - The budget
 - Does the app require local storage or online cloud storage
 - Level of encryption
5. Uber
 - Uber is a minimalistic yet very effective mobile application. The user experience is very smooth and the UI is easier to navigate. The graphics are very simple and at the same time very detailed.